

Anti-SNAP23 Antibody
Catalog # ABO11081**Specification**

Anti-SNAP23 Antibody - Product Information

Application	WB, IHC, ICC
Primary Accession	O00161
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Synaptosomal-associated protein 23(SNAP23) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SNAP23 Antibody - Additional Information

Gene ID 8773

Other Names

Synaptosomal-associated protein 23, SNAP-23, Vesicle-membrane fusion protein SNAP-23, SNAP23

Calculated MW

23354 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, Mouse, Rat
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cell membrane; Peripheral membrane protein. Cell membrane; Lipid-anchor. Cell junction, synapse, synaptosome. Mainly localized to the plasma membrane.

Tissue Specificity

Ubiquitous. Highest levels where found in placenta.

Protein Name

Synaptosomal-associated protein 23(SNAP-23)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human SNAP23(192-211aa DTNRDRIDIANARAKKLIDS), different from the related rat and mouse sequences by three amino

acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the SNAP-25 family.

Anti-SNAP23 Antibody - Protein Information**Name** SNAP23**Function**

Essential component of the high affinity receptor for the general membrane fusion machinery and an important regulator of transport vesicle docking and fusion.

Cellular Location

Cell membrane; Peripheral membrane protein. Cell membrane; Lipid-anchor. Synapse, synaptosome. Note=Mainly localized to the plasma membrane

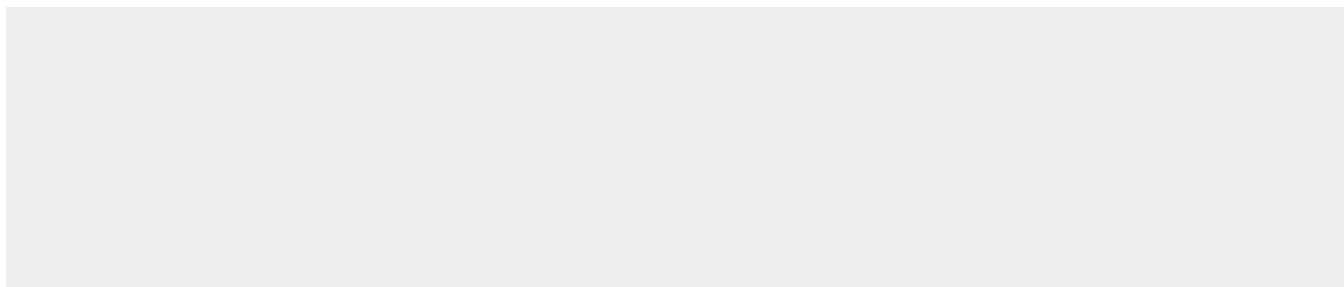
Tissue Location

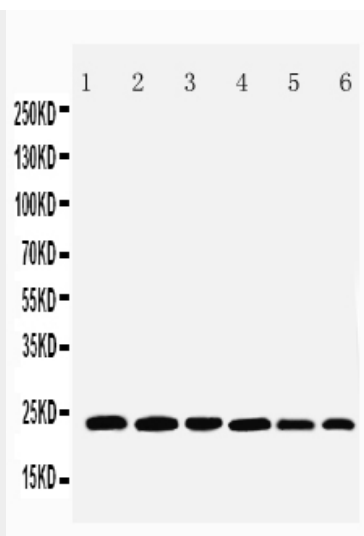
Ubiquitous. Highest levels where found in placenta.

Anti-SNAP23 Antibody - Protocols

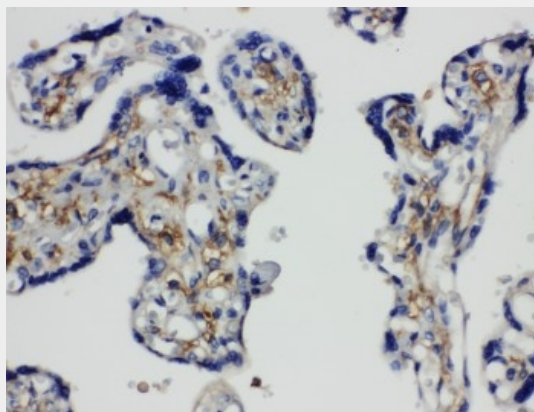
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

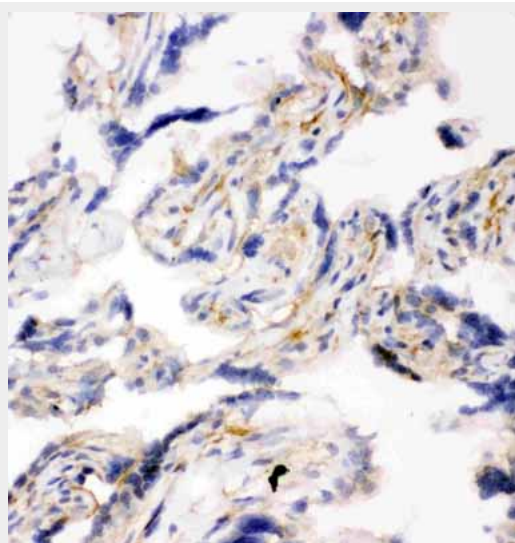
Anti-SNAP23 Antibody - Images



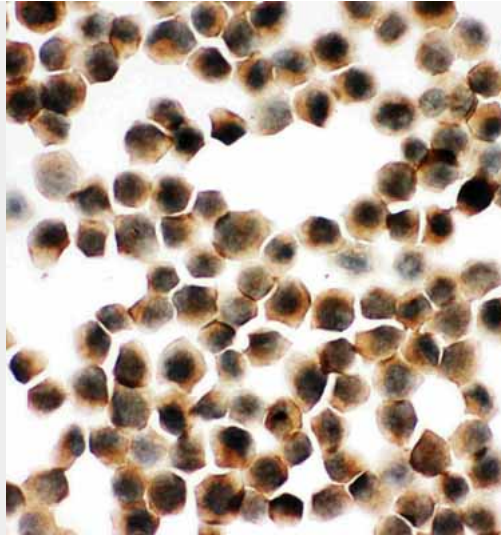
Anti-SNAP23 antibody, ABO11081, Western blotting
Lane 1: Rat Spleen Tissue Lysate
Lane 2: Rat testis Tissue Lysate
Lane 3: Rat Ovary Tissue Lysate
Lane 4: HELA Cell Lysate
Lane 5: MCF-7 Cell Lysate
Lane 6: SKOV Cell Lysate



Anti-SNAP23 antibody, ABO11081, IHC(P)
IHC(P): Human Placenta Tissue



Anti-SNAP23 antibody, ABO11081, IHC(F)
IHC(F): Human Placenta Tissue



Anti-SNAP23 antibody, ABO11081, ICCICC: K562 Cell

Anti-SNAP23 Antibody - Background

SNAP23(Synaptosomal-Associated Protein, 23-KD), also called SNAP23A, is a protein that in humans is encoded by the SNAP23 gene. The SNAP23 gene has 8 exons, with the initiation codon located in exon 2. The SNAP23 gene is mapped on 15q15.1-q15.2. The SNAP23 cDNA encodes a 211-amino acid polypeptide with a predicted mass of 23 kD. Its amino acid sequence is 59% identical to that of SNAP25. Northern blot analysis revealed that SNAP23 is ubiquitously expressed. SNAP23 is able to bind to multiple syntaxins as well as to multiple vesicle-associated membrane proteins. After relocation, SNAP23 is required for exocytosis, implying a crucial role in promoting membrane fusion. TIVAMP-containing vesicles were concentrated in the apical domain of epithelial cells. STX3A and SNAP23 were codistributed at the apical plasma membrane, where they formed N-ethyl maleimide-dependent SNARE complexes with TIVAMP and cellubrevin. SNAP23 is structurally and functionally similar to SNAP25 and binds tightly to multiple syntaxins and synaptobrevins/VAMPs. It is an essential component of the high affinity receptor for the general membrane fusion machinery and is an important regulator of transport vesicle docking and fusion.